

Claims

- 5 1. Bolometric detector comprising at least one receiver antenna designed to collect electromagnetic waves and extended by a resistive load converting the power of the electromagnetic waves into calorific power, said resistive load being in contact with a thermometric element detecting the temperature rise relating to the calorific power generated, said detector also comprising modulating means, detector wherein the modulating means comprise a switch located between the
10 antenna and the resistive load, control means periodically causing opening and closing of the switch at a preset switching frequency.
- 15 2. Bolometric detector according to claim 1, wherein the control means comprise electrostatic switching means.
3. Bolometric detector according to claim 1, wherein the control means comprise thermal switching means.
- 20 4. Detector according to claim 3, wherein the thermal switching means comprise a bimetal effect thermal actuator.
5. Bolometric detector according to claim 1, wherein the control means comprise electromagnetic switching means.
- 25 6. Bolometric detector according to claim 2, wherein the switch, achieved on a substrate, comprises a deformable element attached via its two ends to the substrate and naturally convex with respect to the latter, a conducting stud, provided on the deformable element, being designed to make the electrical contact between the antenna and the resistive load when the switch is closed,
30 the antenna and the resistive load being achieved on said substrate.
7. Detector according to claim 5, wherein the deformable element being magnetic, the switching means comprise a coil arranged on the substrate.

8. Detector according to claim 1, wherein the switching frequency is lower than the thermal cut-off frequency of the detector.

9. Detector according to claim 1, wherein the thermometric element is a diode.

5

10. Imagery device comprising at least one bolometric detector wherein the bolometric detector is a detector according to any one of the claims 1 to 9.

11. Imagery device according to claim 10, comprising a matrix of bolometric detectors.

10